DT17 Rec'd PCT/PTO 2 8 SEP 2004

FORM PTO-1390 (REV. 1-98)	U.S. DEPARTMENT OF COM	MERCE PATENT AND TRADEMARK OFFICE	ATTORNEY 'S DOCKET NUMBER		
•	SMITTAL LETTER	TO THE UNITED STATES	1396 US/PCT		
		ED OFFICE (DO/EO/US)	U.S. APPLICATION NO. (If known, see 37 CFR 1.5		
		IG UNDER 35 U.S.C. 371	10/500501		
	NAL APPLICATION NO.	INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED		
PCT/BE03/00		28 MARCH 2003	28 MARCH 2002		
TITLE OF INV					
		Resistant Casting Element and Manufact	uring Process Thereof		
APPLICANT(S) FOR DO/EO/US HANSE	et al.			
Applicant herev		ites Designated/Elected Office (DO/EO/US)	the following items and other information:		
		concerning a filing under 35 U.S.C. 371.			
		NT submission of items concerning a filing u	nder 35 U.S.C. 371.		
3. This exp	oress request to begin nationa	al examination procedures (35 U.S.C. 371(f))	at any time rather than delay		
examina	tion until the expiration of th	e applicable time limit set in 35 U.S.C. 371(1	b) and PCT Articles 22 and 39(1).		
4. A prope	r Demand for International Pr	eliminary Examination was made by the 19th i	month from the earliest claimed priority date.		
5. A copy	of the International Applicati	on as filed (35 U.S.C. 371(c)(2))			
a. 🛛		quired only if not transmitted by the Internati	onal Bureau).		
ъ. 🛛	has been transmitted by the				
с. Ц	is not required, as the appli	cation was filed in the United States Receiving	ng Office (RO/US).		
6. A trans	lation of the International Ap	plication into English (35 U.S.C. 371(c)(2)).			
7. 🔼 Amendr	nents to the claims of the Inte	ernational Aplication under PCT Article 19 (3	35 U.S.C. 371(c)(3))		
a. 🛛	are transmitted herewith (re	equired only if not transmitted by the Interna	tional Bureau).		
ь. 🛚	have been transmitted by the				
c. 🔲		ver, the time limit for making such amendme	nts has NOT expired.		
d. [_]	have not been made and wi	Il not be made.			
8. A transl	8. A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).				
9. 🙀 An oath	or declaration of the invento	r(s) (35 U.S.C. 371(c)(4)).			
	10. A translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).				
Items 11. to	16. below concern documer	at(s) or information included:			
11. An Info	rmation Disclosure Statement	under 37 CFR 1.97 and 1.98.			
12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.					
13. A FIRST preliminary amendment.					
A SECOND or SUBSEQUENT preliminary amendment.					
14. A substitute specification.					
15. A change of power of attorney and/or address letter.					
16. X Other ite	ems or information:				
Retu	rn Receipt Postcard				
Certi	ficate of Express Mailing (I				
		Preliminary Examination Report			
A 00	py of the PCT Publication	¥¥C 30/062300			
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		,			

U.S. APPLICATION ND. (iPenov	7K719501	TTERNATIONAL APPLICATION NO.		ATTORNEYS DO	
	ing fees are submitted:			1396 US/PC	
	FEE (37 CFR 1.492 (a)	(1) - (5)):			
Neither internation	al preliminary examination	on fee (37 CFR 1 482)			
nor international se and International Se	earch fee (37 CFR 1.445(a earch Report not prepare	a)(2)) paid to USPTO d by the EPO or JPO	\$1070.00		
International prelin USPTO but Interna	ninary examination fee (3 ational Search Report pre	37 CFR 1.482) not paid to pared by the EPO or JPC	o D \$930.00		
International prelim but international se	ninary examination fee (3 arch fee (37 CFR 1.445(37 CFR 1.482) not paid to a)(2)) paid to USPTO	USPTO \$790.00		
		7 CFR 1.482) paid to US CT Article 33(1)-(4)			
International prelim	ninary examination fee (3	37 CFR 1.482) paid to US	SPTO		
ENTE	R APPROPRIATE	BASIC FEE AMO		\$	950.00
months from the earl	0 for furnishing the oath diest claimed priority date	or declaration later than: (37 CFR 1.492(e)).	20 30	\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	
Total claims	- 20 =		x \$22.00	\$	Ţ <u> </u>
Independent claims	-3 =	<u></u>	x \$82.00	\$	
MULTIPLE DEPENI	DENT CLAIM(S) (if app		+ \$270.00	\$	
Peduction of 1/2 for		OF ABOVE CALCU		\$	
Reduction of 1/2 for filing by small entity, if applicable. A Small Entity Statement must also be filed (Note 37 CFR 1.9, 1.27, 1.28).				\$	
			JBTOTAL =	\$	
Processing fee of \$13 months from the earl	30.00 for furnishing the E liest claimed priority date	` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `		\$	
		TOTAL NATIO		\$	
Fee for recording the accompanied by an a	Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +				
		TOTAL FEES E	NCLOSED =	\$	950.00
				Amount to be refunded:	\$
				charged:	\$ 950.00
a. A check in t	the amount of \$	to cover th	e above fees is enclos		1 500.00
b. Please charge my Deposit Account No. 22-0281 in the amount of \$ 950.00 to cover the above fees. A duplicate copy of this sheet is enclosed.					
c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 22-0281 . A duplicate copy of this sheet is enclosed.					
NOTE: Where an 1.137 (a) or (b)) mu	appropriate time limit \u00e4 ist be filed and granted	under 37 CFR 1.494 or to restore the application	1.495 has not been mon to pending status.	net, a petition to revi	ive (37 CFR
SEND ALL CORRESPONDENCE TO:					
VESUVIUS SIGNATURE					
ATTN: ROBERT -4604-CAMPBELL	S. KLEMZ, JR.		Robert	S. Klemz, Jr.	<u> </u>
PITTSBURGH, P.			(I) NAME		
			46,305	<u> </u>	
			REGISTRA	ATION NUMBER	

10/509501 DT04 Rec'd PCT/PT0 28 SEP 2004

IN	THE	UNITED	STATES	PATENT	AND	TRADEMARK	OFFICE
				T 1.7 T T T T T	α	TICADLINATU	

In re Application of)	HANSE et al.
)	
Title)	THERMAL SHOCK RESISTANT
)	CASTING ELEMENT AND
)	MANUFACTURING PROCESS THEREOF
)	
Attorney Docket No.)	1396 WO

To: Commissioner for Patents

Mail Stop PCT P.O. Box 1450

Alexandria, VA 22313-1450

Express Mail Certificate

Date of Deposit: SEPTEMBER 28, 2004

To: Commissioner for Patents

I hereby certify that this correspondence is being deposited with the United States Postal Service as "Express Mail Post Office to Addressee" under 37 C.F.R. 1.10 on the date indicated above and was addressed to the Commissioner for Patents, Mail Stop PCT, P.O. Box 1450, Alexandria, VA 22313-1450.

Express Mail number ER 676106970US

Signature of person mailing correspondence

_Thomas C. Dunford____

Name of person mailing correspondence